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94-31

memorandum

December 8, 1995

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To: Bill Caton

From: Audrey Allison

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Re: **Final Acts of WRC-95**

Attached are two copies of the Final Acts of the 1995 World Radiocommunication Conference (WRC-95). Please associate this document with the file in IC Docket No. 94-31, *Preparation for International ITU World Radiocommunication Conferences*.

We will be putting out a Public Notice in the near future announcing the availability of this document.

Please contact me if you have any questions or concerns.

Thank you.

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**FINAL ACTS
OF THE
WORLD RADIO CONFERENCE
(WRC-95)
GENEVA, 1995**

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Articles S1 to S5**

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Geneva, 17 November 1995

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FEDERAL COMMUNICATIONS COMMISSION
OFFICE OF SECRETARY

PART I

**Preamble to the Radio Regulations
Articles S1 to S5**

ARTICLE S0 - PREAMBLE

RR	VGE proposal	VGE Report	WRC-95 decision
	ADD	S0.1	
	ADD	S0.2	(MOD)
	ADD	S0.3	(MOD)
	ADD	S0.4	(MOD)
	ADD	S0.5	(MOD)
	ADD	S0.6	(MOD)
	ADD	S0.7	
	ADD	S0.8	(MOD)
	ADD	S0.9	
	ADD	S0.10	(MOD)
1	MOD	S0.11	

RADIO REGULATIONS

PREAMBLE

- NOC S0.1** These Regulations are founded on the following principles:
- (MOD) S0.2** Administrations shall endeavour to limit the number of frequencies and the spectrum used to the minimum essential to provide in a satisfactory manner the necessary services. To that end, they shall endeavour to apply the latest technical advances as soon as possible. (No. 195 of the Constitution of the International Telecommunication Union (Geneva, 1992))
- (MOD) S0.3** In using frequency bands for radio services, administrations shall bear in mind that radio frequencies and the geostationary-satellite orbit are limited natural resources and that they must be used rationally, efficiently and economically, in conformity with the provisions of these Regulations, so that countries or groups of countries may have equitable access to both, taking into account the special needs of the developing countries and the geographical situation of particular countries. (No. 196 of the Constitution)
- (MOD) S0.4** All stations, whatever their purpose, must be established and operated in such a manner as not to cause harmful interference to the radio services or communications of other administrations or of recognized operating agencies, or of other duly authorized operating agencies which carry on a radio service, and which operate in accordance with the provisions of these Regulations. (No. 197 of the Constitution)
- (MOD) S0.5** With a view to fulfilling the purposes of the International Telecommunication Union set out in Article 1 of the Constitution, these Regulations have the following objectives:
- (MOD) S0.6** to facilitate equitable access to and rational use of the natural resources of the radio-frequency spectrum and the geostationary-satellite orbit;
- NOC S0.7** to ensure the availability and protection from harmful interference of the frequencies provided for distress and safety purposes;
- (MOD) S0.8** to assist in the prevention and resolution of cases of harmful interference between the radio services of different administrations;

NOC S0.9

to facilitate the efficient and effective operation of all
radiocommunication services;

(MOD) S0.10

to provide for and, where necessary, regulate new applications of
radiocommunication technology.

NOC S0.11

The application of the provisions of these Regulations by the
International Telecommunication Union does not imply the expression of any
opinion whatsoever on the part of the Union concerning the sovereignty or the
legal status of any country, territory or geographical area.

ARTICLE S1 - Terms and Definitions

RR	VGE proposal	VGE Report	WRC-95 decision
2	MOD	S1.1	
3	MOD	S1.2	(MOD)
4	(MOD)	S1.3	
5	(MOD)	S1.4	
6		S1.5	
7	(MOD)	S1.6	
8		S1.7	
9		S1.8	
10		S1.9	
11		S1.10	
12		S1.11	
13		S1.12	
14		S1.13	
15	MOD	S1.14	(MOD)
16		S1.15	
17		S1.16	
18		S1.17	
19		S1.18	
20		S1.19	
21		S1.20	
22		S1.21	
23	SUP	--	
24		S1.22	
25		S1.23	
26	(MOD)	S1.24	
27		S1.25	
28		S1.26	
29		S1.27	
30		S1.28	
31		S1.29	
32		S1.30	
33		S1.31	
34		S1.32	
34A		S1.33	
34B		S1.34	
35		S1.35	
35A		S1.36	
35B		S1.37	
36	(MOD)	S1.38	
37		S1.39	
38		S1.40	

RR	VGE proposal	VGE Report	WRC-95 decision
39		S1.41	
40		S1.42	
41		S1.43	
42		S1.44	
43		S1.45	
44		S1.46	
45		S1.47	
46		S1.48	
46A		S1.49	
47		S1.50	
48		S1.51	
49		S1.52	
50		S1.53	
51		S1.54	
52		S1.55	
53		S1.56	
54		S1.57	
55		S1.58	
56	(MOD)	S1.59	
57		S1.60	
58		S1.61	
59		S1.62	
60		S1.63	
61		S1.64	
62		S1.65	
63		S1.66	
64	SUP	--	
65		S1.67	
66		S1.68	
67		S1.69	
67A		S1.70	
68		S1.71	
68A		S1.72	
69		S1.73	
69A		S1.74	
70		S1.75	
71		S1.76	
72		S1.77	
73		S1.78	
74		S1.79	
75		S1.80	
76		S1.81	
77		S1.82	

RR	VGE proposal	VGE Report	WRC-95 decision
78		S1.83	
79		S1.84	
80		S1.85	
81		S1.86	
82		S1.87	
83		S1.88	
84		S1.89	
85		S1.90	
86		S1.91	
87		S1.92	
88		S1.93	
88A		S1.94	
89		S1.95	
90		S1.96	
91		S1.97	
92		S1.98	
93		S1.99	
94		S1.100	
95		S1.101	
96		S1.102	
97		S1.103	
98		S1.104	
99		S1.105	
100		S1.106	
101		S1.107	
102		S1.108	
103		S1.109	
104		S1.110	
105		S1.111	
106		S1.112	
107		S1.113	
108		S1.114	
109		S1.115	
110	(MOD)	S1.116	
111	(MOD)	S1.117	MOD
112	(MOD)	S1.118	
113		S1.119	
114		S1.120	
115		S1.121	
116	MOD	S1.122	
117	MOD	S1.123	(MOD)
118		S1.124	
119		S1.125	

RR	VGE proposal	VGE Report	WRC-95 decision
120		S1.126	
121		S1.127	
122		S1.128	
123		S1.129	
124		S1.130	
125		S1.131	
126		S1.132	
127		S1.133	
128		S1.134	
129		S1.135	
130		S1.136	
131		S1.137	
132		S1.138	
133		S1.139	
134		S1.140	
135		S1.141	
136		S1.142	
137		S1.143	
138		S1.144	
139		S1.145	
140		S1.146	
141		S1.147	
142		S1.148	
143		S1.149	
144		S1.150	
145		S1.151	
146		S1.152	
147	(MOD)	S1.153	
148		S1.154	
149		S1.155	
150	(MOD)	S1.156	
151		S1.157	
152		S1.158	
153		S1.159	
154		S1.160	
155		S1.161	
156		S1.162	
157		S1.163	
158		S1.164	
159		S1.165	
160		S1.166	
161	(MOD)	S1.167	
162		S1.168	

RR	VGE proposal	VGE Report	WRC-95 decision
163	(MOD)	S1.169	
164		S1.170	
165		S1.171	
166		S1.172	
167		S1.173	
168		S1.174	
168A		S1.175	
168B		S1.176	
169		S1.177	
170		S1.178	
171		S1.179	
172		S1.180	
173		S1.181	
174		S1.182	
175		S1.183	
176		S1.184	
177		S1.185	
178		S1.186	
179		S1.187	
180		S1.188	
181		S1.189	
182		S1.190	
183		S1.191	
184 - 207 not allocated			
FOOTNOTES			
15.1	SUP		
		S1.117.1	MOD
119.1		S1.125.1	
120.1		S1.126.1	
121.1		S1.127.1	
161.1		S1.167.1	
162.1		S1.168.1	

CHAPTER SI

NOC

Terminology and Technical Characteristics

ARTICLE S1

NOC

Terms and Definitions

NOC

Introduction

NOC S1.1

For the purposes of these Regulations, the following terms shall have the meanings defined below. These terms and definitions do not, however, necessarily apply for other purposes. Definitions identical to those contained in the Annex to the Constitution or the Annex to the Convention of the International Telecommunication Union (Geneva, 1992) are marked "(CS)" or "(CV)" respectively.

Note: If, in the text of a definition below, a term is printed in italics, this means that the term itself is defined in this Article.

NOC

Section I. General Terms

(MOD) S1.2

Administration: Any governmental department or service responsible for discharging the obligations undertaken in the Constitution of the International Telecommunication Union, in the Convention of the International Telecommunication Union and in the Administrative Regulations (CS 1002).

NOC S1.3
to
S1.13

(MOD) S1.14

Coordinated Universal Time (UTC): Time scale, based on the second (SI), as defined in ITU-R Recommendation ITU-R TF.460-4.

For most practical purposes associated with the Radio Regulations, UTC is equivalent to mean solar time at the prime meridian (0° longitude), formerly expressed in GMT.

NOC S1.15
to
S1.116

- MOD S1.117** *Telegraphy*¹: A form of telecommunication in which the transmitted information is intended to be recorded on arrival as a graphic document; the transmitted information may sometimes be presented in an alternative form or may be stored for subsequent use (CS 1016).
- MOD S1.117.1** ¹ *Note*: A graphic document records information in a permanent form and is capable of being filed and consulted; it may take the form of written or printed matter or of a fixed image.
- NOC S1.118**
 to
 S1.121
- NOC S1.122** *Facsimile*: A form of *telegraphy* for the transmission of fixed images, with or without half-tones, with a view to their reproduction in a permanent form.
- (MOD) S1.123** *Telephony*: A form of *telecommunication* primarily intended for the exchange of information in the form of speech (CS 1017).
- NOC S1.124**
 to
 S1.191

ARTICLE S2 - Nomenclature

RR	VGE proposal	VGE Report	WRC-95 decision
208	MOD	S2.1	(MOD)
209		S2.2	
210 - 234 not allocated			
235		S2.3	
236		S2.4	
237		S2.5	
238		S2.6	
239 - 263 not allocated			
264	MOD	S2.7	
265 - 273	SUP*	Ap. S1	
274 - 298 not allocated			
FOOTNOTES			
267.1	SUP*	Ap. S1	
271.1	SUP*	Ap. S1	
272.1	SUP*	Ap. S1	
273.1	SUP*	Ap. S1	

ARTICLE S2

NOC

Nomenclature

NOC

Section I. Frequency and Wavelength Bands

(MOD) S2.1

The radio spectrum shall be subdivided into nine frequency bands, which shall be designated by progressive whole numbers in accordance with the following table. As the unit of frequency is the hertz (Hz), frequencies shall be expressed:

- in kilohertz (kHz), up to and including 3 000 kHz;
- in megahertz (MHz), above 3 MHz, up to and including 3 000 MHz;
- in gigahertz (GHz), above 3 GHz, up to and including 3 000 GHz.

However, where adherence to these provisions would introduce serious difficulties, for example in connection with the notification and registration of frequencies, the lists of frequencies and related matters, reasonable departures may be made.

Band Number	Symbols	Frequency Range (lower limit exclusive, upper limit inclusive)	Corresponding Metric Subdivision	Metric Abbreviations for the Bands
4	VLF	3 to 30 kHz	Myriametric waves	B.Mam
5	LF	30 to 300 kHz	Kilometric waves	B.km
6	MF	300 to 3 000 kHz	Hectometric waves	B.hm
7	HF	3 to 30 MHz	Decametric waves	B.dam
8	VHF	30 to 300 MHz	Metric waves	B.m
9	UHF	300 to 3 000 MHz	Decimetric waves	B.dm
10	SHF	3 to 30 GHz	Centimetric waves	B.cm
11	EHF	30 to 300 GHz	Millimetric waves	B.mm
12		300 to 3 000 GHz	Decimillimetric waves	

Note 1: "Band N" (N = band number) extends from 0.3×10^N Hz to 3×10^N Hz.

Note 2: Prefix: k = kilo (10^3), M = mega (10^6), G = giga (10^9).

NOC S2.2

NOC

Section II. Dates and Times

NOC S2.3
to
S2.6

NOC

Section III. Designation of Emissions

NOC S2.7

Emissions shall be designated according to their necessary bandwidth and their classification in accordance with the method described in Appendix S1.

**ARTICLE S3 - Technical Characteristics
of Stations**

RR	VGE proposal	VGE Report	WRC-95 decision
299		S3.1	
300	(MOD)	S3.2	
301		S3.3	
302	(MOD)	S3.4	
303	MOD	S3.5	MOD
304	MOD	S3.6	MOD
305	MOD	S3.7	MOD
306		S3.8	
307	(MOD)	S3.9	
308		S3.10	
309		S3.11	
310		S3.12	
311		S3.13	
312	(MOD)	S3.14	
313		S3.15	
314 - 338 not allocated			

ARTICLE S3

NOC

Technical Characteristics of Stations

**NOC S3.1
to
S3.4**

MOD S3.5 Transmitting stations shall conform to the frequency tolerances specified in Appendix S2.

MOD S3.6 Transmitting stations shall conform to the maximum permitted spurious emission power levels specified in Appendix S3.

MOD S3.7 Transmitting stations shall conform to the maximum permitted power levels for out-of-band emissions specified for certain services and classes of emission in the present Regulations. In the absence of such specified maximum permitted power levels transmitting stations should, to the maximum extent possible, satisfy the requirements relating to the limitation of the out-of-band emissions specified in the most recent ITU-R Recommendations (see Resolution [COM4-4]).

**NOC S3.8
to
S3.15**

**ARTICLE S4 - Assignment and
Use of Frequencies**

RR	VGE proposal	VGE Report	WRC-95 decision
339	MOD	S4.1	MOD
340		S4.2	
341	MOD	S4.3	
342	MOD	S4.4	(MOD)
343		S4.5	
344		S4.6	
345		S4.7	
346		S4.8	
347	MOD	S4.9	
348	SUP*	S4.9	
349 - 373 not allocated			
953		S4.10	
954		S4.11	
955		S4.12	
956		S4.13	
957		S4.14	
958		S4.15	
959		S4.16	
960		S4.17	
961		S4.18	
962		S4.19	
963		S4.20	
963A	ADD	S4.21	
964		S4.22	
965 - 989 not allocated			
FOOTNOTE			
339.1	(MOD)	S4.1.1	SUP

CHAPTER SII

NOC

Frequencies

ARTICLE S4

NOC

Assignment and Use of Frequencies

NOC

Section I. General Rules

MOD S4.1

Members shall endeavour to limit the number of frequencies and the spectrum used to the minimum essential to provide in a satisfactory manner the necessary services. To that end they shall endeavour to apply the latest technical advances as soon as possible. (CS195)

SUP S4.1.1

NOC S4.2

NOC S4.3

Any new assignment or any change of frequency or other basic characteristic of an existing assignment (see Appendix S4) shall be made in such a way as to avoid causing harmful interference to services rendered by stations using frequencies assigned in accordance with the Table of Frequency Allocations in this Chapter and the other provisions of these Regulations, the characteristics of which assignments are recorded in the Master International Frequency Register.

(MOD) S4.4

Administrations of the Members shall not assign to a station any frequency in derogation of either the Table of Frequency Allocations in this Chapter or the other provisions of these Regulations, except on the express condition that such a station shall not cause harmful interference to, and shall not claim protection from harmful interference caused by, a station operating in accordance with the provisions of the Constitution, the Convention and these Regulations.

NOC S4.5
to
S4.8

NOC S4.9

No provision of these Regulations prevents the use by a station in distress, or by a station providing assistance to it, of any means of radiocommunication at its disposal to attract attention, make known the condition and location of the station in distress, and obtain or provide assistance.

NOC S4.10
to
S4.20

NOC S4.21

In exceptional cases, land mobile earth stations in the land mobile-satellite service may communicate with stations in the maritime mobile-satellite and aeronautical mobile-satellite services. Such operations shall comply with the relevant provisions of the Radio Regulations relating to those services and shall be subject to agreement among administrations concerned, taking due account of No. S4.10.

NOC S4.22

ARTICLE S5 - Frequency Allocations

RR	VGE Proposal	VGE Report	WRC-95 decision
391		S5.1	
392		S5.2	
393		S5.3	MOD
394		S5.4	
395		S5.5	MOD
396		S5.6	
397		S5.7	
398		S5.8	
399		S5.9	
400		S5.10	
401		S5.11	
402		S5.12	
403		S5.13	
404		S5.14	MOD
405		S5.15	
406		S5.16	
407		S5.17	
408		S5.18	
409		S5.19	
410		S5.20	
411		S5.21	
412		S5.22	
413	MOD	S5.23	
414		S5.24	
415		S5.25	
416	SUP	--	
417	(MOD)	S5.26	
418		S5.27	
419	SUP	--	
420	(MOD)	S5.28	
421	MOD	S5.29	
422	MOD	S5.30	
423		S5.31	
424	(MOD)	S5.32	
425	MOD	S5.33	
426		S5.34	
427		S5.35	
428		S5.36	
429		S5.37	
430		S5.38	
431		S5.39	

RR	VGE Proposal	VGE Report	WRC-95 decision
432		S5.40	
433		S5.41	
434		S5.42	
435		S5.43	
436		S5.44	
436A	ADD	S5.45	SUP
437		S5.46	
438		S5.47	
439		S5.48	
440		S5.49	
441		S5.50	
442		S5.51	
443		S5.52	
444		S5.53	
445		S5.54	
446	MOD	S5.55	MOD
447		S5.56	MOD
448		S5.57	
449	MOD	S5.58	MOD
450		S5.59	
451		S5.60	
452	MOD	S5.61	MOD
453		S5.62	
453A		S5.63	
454		S5.64	
455		S5.65	
456		S5.66	(MOD)
457		S5.67	MOD
458	SUP Mob-87	--	
459	SUP	--	SUP
460		S5.68	
461		S5.69	
462		S5.70	
463	SUP	--	SUP
464		S5.71	
464A	SUP WARC-92	--	
465		S5.72	
466		S5.73	
466A	MOD	S5.74	
467	MOD	S5.75	MOD
468		S5.76	
469	MOD	S5.77	MOD

RR	VGE Proposal	VGE Report	WRC-95 decision
469A		S5.78	
470		S5.79	
470A		S5.80	
471		S5.81	
472		S5.82	
472A		S5.83	(MOD)
473	SUP Mob-87	--	
474		S5.84	MOD
475	SUP WARC-92	--	
476		S5.85	SUP
477		S5.86	
478		S5.87	
479		S5.88	
480	MOD	S5.89	
480A		S5.90	
481	SUP WARC-92	--	
482		S5.91	MOD
483	SUP	--	SUP
484	MOD	S5.92	MOD
485	MOD	S5.93	MOD
486		S5.94	SUP
487	MOD	S5.95	SUP
488		S5.96	MOD
489		S5.97	
490		S5.98	MOD
491		S5.99	MOD
492		S5.100	MOD
493		S5.101	
494		S5.102	
495		S5.103	
496		S5.104	
497		S5.105	MOD
498		S5.106	
499		S5.107	(MOD)
500		S5.108	
500A		S5.109	
500B		S5.110	
501		S5.111	
502	MOD	S5.112	MOD
503		S5.113	
504	MOD	S5.114	MOD
505		S5.115	

RR	VGE Proposal	VGE Report	WRC-95 decision
506		S5.116	
507	MOD	S5.117	MOD
508		S5.118	MOD
509		S5.119	
510		S5.120	
511		S5.121	SUP
512		S5.122	
513	MOD	S5.123	MOD
514		S5.124	
515		S5.125	
516		S5.126	
517		S5.127	
518		S5.128	MOD
519		S5.129	
520		S5.130	
520A		S5.131	(MOD)
520B		S5.132	
521		S5.133	MOD
521A		S5.134	
521B		S5.135	
521C		S5.136	
522		S5.137	
523	SUP Mob-83	--	
524	MOD	S5.138	
525		S5.139	MOD
526		S5.140	MOD
527		S5.141	MOD
528		S5.142	
528A		S5.143	
529		S5.144	
529A		S5.145	
529B		S5.146	
530		S5.147	
531		S5.148	[NOC-MOD]
532	SUP WARC-92	--	
533	MOD	S5.149	MOD
534	MOD	S5.150	
534A		S5.151	
535		S5.152	MOD
536		S5.153	
537	SUP WARC-92	--	
538		S5.154	MOD